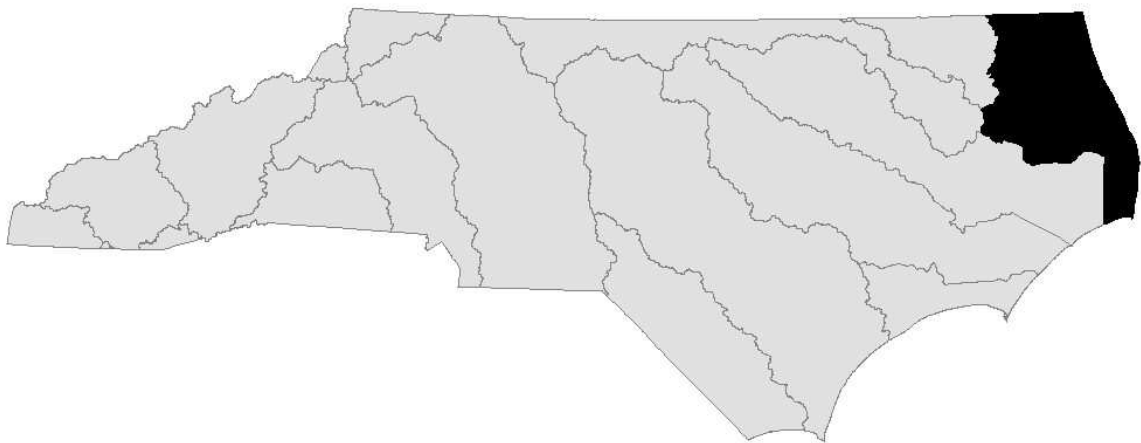


**Pasquotank River Basin
Basinwide Assessment Report
Whole Effluent Toxicity Program
2006-2010**



The Division of Water Quality's Whole Effluent Toxicity Monitoring Program

Acute and/or chronic toxicity tests are used to determine toxicity of discharges to sensitive aquatic species (usually fathead minnows or the water flea, *Ceriodaphnia dubia*). Results of these tests have been shown by researchers to be predictive of discharge effects to receiving stream populations.

Many facilities are required to monitor whole effluent toxicity (WET) by their NPDES permit. Facilities without monitoring requirements may have their effluents evaluated for toxicity by DWQ's Aquatic Toxicology Laboratory. If toxicity is detected, DWQ may include aquatic toxicity testing upon permit renewal.

DWQ's Aquatic Toxicology Unit maintains a compliance summary for all facilities required to perform tests and provides a monthly update of this information to regional offices and WQ administration. Ambient toxicity tests can be used to evaluate stream water quality relative to other stream sites and/or a point source discharge.

WET Monitoring in the Pasquotank River Basin – 2006-2010

Twenty facility permits in the Pasquotank River basin currently require whole effluent toxicity (WET) monitoring (Figure 1 and Table 1). Two facility permits have a WET limit while seventeen require monitoring without a limit. Three facilities have active permits but are not discharging. All facilities are compliant for the 5 year cycle.

Figure 1. Pasquotank River basin facilities location for WET Testing

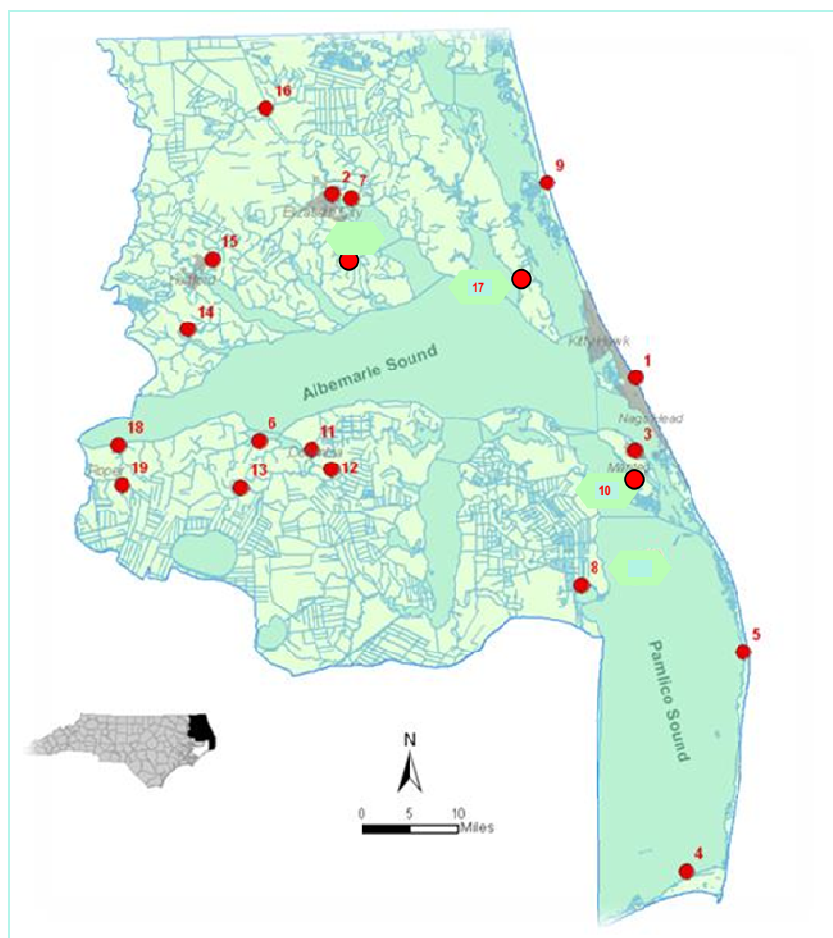


Table 1. Pasquotank River basin facilities required to conduct whole effluent toxicity testing

Subbasin/Facility	Facility # on Table 1	NPDES Permit No.	Receiving Stream	County
03-01-50				
Camden Co. WTP	7	NC0086681	Pasquotank R.	Camden
Elizabeth City WWTP	2	NC0025011	Pasquotank R.	Pasquotank
South Mills WTP	16	NC0007978	Dismal Swamp Canal	Camden
03-01-51				
Manteo WWTP	3	NC0079057	Shallowbag Bay	Dare
Skyco WTP	10	NC0035670	UT Croatan Sound	Dare
03-01-52				
Bethel WTP	14	NC0068861	Bethel Cr.	Perquimans
Winfall WTP	15	NC0051373	UT Mill Cr.	Perquimans
Pasquotank Co. WTP	20	NC0088480	Albemarle Sound	Pasquotank
03-01-53				
Columbia WTP	11	NC0007510	UT Scuppernong R.	Tyrrell
Creswell WTP	13	NC0027600	UT Scuppernong R.	Washington
Roper WTP	19	NC0031925	UT Kendrick Cr.	Washington
Bull Bay WTP	6	NC0086924	Bull Bay	Tyrrell
Tyrrell County WTP	12	NC0087092	UT Riders Cr.	Tyrrell
Washington Co. WTP	18	NC0087009	Albemarle Sound	Washington
03-01-54				
Southern Outer Banks WTP	9	NC0087670	Atlantic Ocean	Currituck
Mainland WTP	17	NC0088650	North River	Currituck
03-01-55				
Cape Hatteras WTP	4	NC0085707	Pamlico Sound	Dare
Rodanthe/Waves/Salvo WTP	5	NC0083909	Blackmar Gut	Dare
Stumpy Point WTP	8	NC0086932	Stumpy Point Bay	Dare
03-01-56				
Dare County WTP/002	1	NC0070157	UT Atlantic Ocean	Dare